Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2018-12-18-97** **Date: 19-10-18**

Project Name : Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division

Agency : M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.

Customer's Reference : BBMP/EE/BTP/W.O/05/2018-19

Date of Receipt : 15-10-18

Sample ID No : 2018-12-18-97 /01

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 16-10-18

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.05	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.6	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-12-18-97** **Date: 13-11-18**
Project Name	:	Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.
Customer's Reference	:	BBMP/EE/BTP/W.O/05/2018-19
Date of Receipt	:	15-10-18
Sample ID No	:	2018-12-18-97 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	16-10-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Quality Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-18-97** **Date: 19-10-18**
Project Name	:	Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.
Customer's Reference	:	BBMP/EE/BTP/W.O/05/2018-19
Date of Receipt	:	15-10-18
Sample ID No	:	2018-12-18-97 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	15-10-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	251	251	1.7	98.3	90-100
3	20 mm	7344	7595	50.6	49.4	30-70
4	10 mm	4736	12331	82.2	17.8	10-35
5	4.75 mm	2317	14648	97.7	2.3	0-5
6	Pan	352	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-18-97** **Date: 19-10-18**

Sample ID No : 2018-12-18-97 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.1	
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	1.48	_
5	Bulk Density(Compacted) (Kg/l)	1.51	_
6	Water Absorption(%)	0.23	_

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-18-97** **Date: 19-10-18**
Project Name	:	Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.
Customer Reference	:	BBMP/EE/BTP/W.O/05/2018-19
Date of Receipt	:	15-10-18
Sample ID No	:	2018-12-18-97 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	15-10-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	198	198	4.0	96.0	90-100
3	10 mm	2401	2599	52.0	48.0	25-55
4	4.75 mm	2146	4745	94.9	5.1	0-10
5	Pan	255	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-12-18-97** **Date: 19-10-18**

Sample ID No : 2018-12-18-97 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.49	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.23	_
7	Aggregate crushing Value(%)	23.7	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signature
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

End of Report

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-12-18-97** **Date: 19-10-18**

Project Name : Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division

Agency : M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.

Customer's Reference : BBMP/EE/BTP/W.O/05/2018-19

Date of Receipt : 15-10-18

Sample ID No : 2018-12-18-97 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 15-10-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-12-18-97** **Date: 19-10-18**

Sample ID No : 2018-12-18-97 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-18-97** **Date: 05/11/2018**

Project Name : Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division

Agency : M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.

Customer's Reference : BBMP/EE/BTP/W.O/05/2018-19

Date of Receipt : 31-10-18

Sample ID No : 2018-12-18-97 /01

Customer ID : M30 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Concrete	M30	29/10/2018	05/11/2018	150.42 X 150.54 X 150.45	22644	8.312	643.1	28.4	28.4
2	M30 Concrete	M30	29/10/2018	05/11/2018	150.42 X 150.54 X 150.45	22644	8.331	647.6	28.6	
3	M30 Concrete	M30	29/10/2018	05/11/2018	150.32 X 150.54 X 150.35	22629	8.345	635.9	28.1	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-18-97** **Date: 26/11/2018**

Project Name : Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division

Agency : M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.

Customer's Reference : BBMP/EE/BTP/W.O/05/2018-19

Date of Receipt : 31-10-18

Sample ID No : 2018-12-18-97 /02

Customer ID : M30 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Concrete	M30	29/10/2018	26/11/2018	150.56 X 150.44 X 150.45	22650	8.312	731.6	32.3	32.5
2	M30 Concrete	M30	29/10/2018	26/11/2018	150.46 X 151.54 X 150.45	22801	8.331	743.3	32.6	
3	M30 Concrete	M30	29/10/2018	26/11/2018	150.53 X 150.57 X 150.35	22665	8.345	736.6	32.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-18-97** **Date: 05/11/2018**

Project Name : Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division

Agency : M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.

Customer's Reference : BBMP/EE/BTP/W.O/05/2018-19

Date of Receipt : 31-10-18

Sample ID No : 2018-12-18-97 /03

Customer ID : M30 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Concrete	M30	29/10/2018	05/11/2018	150.36 X 150.42 X 150.37	22617	8.312	637.8	28.2	28.2
2	M30 Concrete	M30	29/10/2018	05/11/2018	150.67 X 150.35 X 150.54	22653	8.331	643.4	28.4	
3	M30 Concrete	M30	29/10/2018	05/11/2018	150.67 X 150.55 X 150.35	22683	8.345	637.4	28.1	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-18-97**

Date: 26/11/2018

Project Name : Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division

Agency : M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.

Customer's Reference : BBMP/EE/BTP/W.O/05/2018-19

Date of Receipt : 31-10-18

Sample ID No : 2018-12-18-97 /04

Customer ID : M30 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Concrete	M30	29/10/2018	26/11/2018	150.61 X 150.44 X 150.55	22658	8.312	743.2	32.8	32.3
2	M30 Concrete	M30	29/10/2018	26/11/2018	150.56 X 151.54 X 150.45	22816	8.331	737.0	32.3	
3	M30 Concrete	M30	29/10/2018	26/11/2018	150.58 X 150.57 X 150.35	22673	8.345	723.3	31.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-18-97** **Date: 05/11/2018**

Project Name : Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division

Agency : M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.

Customer's Reference : BBMP/EE/BTP/W.O/05/2018-19

Date of Receipt : 31-10-18

Sample ID No : 2018-12-18-97 /05

Customer ID : M30 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Concrete	M30	29/10/2018	05/11/2018	150.51 X 150.41 X 150.37	22638	8.312	636.1	28.1	28.3
2	M30 Concrete	M30	29/10/2018	05/11/2018	150.57 X 150.44 X 150.54	22652	8.331	645.6	28.5	
3	M30 Concrete	M30	29/10/2018	05/11/2018	150.37 X 150.55 X 150.35	22638	8.345	642.9	28.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-18-97** **Date: 26/11/2018**

Project Name : Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division

Agency : M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.

Customer's Reference : BBMP/EE/BTP/W.O/05/2018-19

Date of Receipt : 31-10-18

Sample ID No : 2018-12-18-97 /06

Customer ID : M30 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Concrete	M30	29/10/2018	26/11/2018	150.65 X 151.32 X 150.45	22796	8.312	738.6	32.4	32.4
2	M30 Concrete	M30	29/10/2018	26/11/2018	150.56 X 151.47 X 150.45	22805	8.331	748.0	32.8	
3	M30 Concrete	M30	29/10/2018	26/11/2018	150.72 X 150.68 X 150.35	22710	8.345	729.0	32.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-18-97** **Date: 05/11/2018**

Project Name : Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division

Agency : M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.

Customer's Reference : BBMP/EE/BTP/W.O/05/2018-19

Date of Receipt : 31-10-18

Sample ID No : 2018-12-18-97 /07

Customer ID : M30 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Concrete	M30	29/10/2018	05/11/2018	150.41 X 150.45 X 150.34	22629	8.312	640.4	28.3	28.4
2	M30 Concrete	M30	29/10/2018	05/11/2018	150.57 X 150.32 X 150.43	22634	8.331	631.5	27.9	
3	M30 Concrete	M30	29/10/2018	05/11/2018	150.32 X 150.51 X 150.35	22625	8.345	653.9	28.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-18-97**

Date: 26/11/2018

Project Name : Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division

Agency : M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.

Customer's Reference : BBMP/EE/BTP/W.O/05/2018-19

Date of Receipt : 31-10-18

Sample ID No : 2018-12-18-97 /08

Customer ID : M30 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Concrete	M30	29/10/2018	26/11/2018	150.52 X 151.48 X 150.35	22801	8.312	747.9	32.8	32.8
2	M30 Concrete	M30	29/10/2018	26/11/2018	150.86 X 151.42 X 150.51	22843	8.331	744.7	32.6	
3	M30 Concrete	M30	29/10/2018	26/11/2018	151.72 X 150.68 X 150.35	22861	8.345	752.1	32.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-18-97** **Date: 05/11/2018**

Project Name : Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division

Agency : M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.

Customer's Reference : BBMP/EE/BTP/W.O/05/2018-19

Date of Receipt : 31-10-18

Sample ID No : 2018-12-18-97 /09

Customer ID : M30 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Concrete	M30	29/10/2018	05/11/2018	150.32 X 150.54 X 150.48	22629	8.312	649.5	28.7	28.7
2	M30 Concrete	M30	29/10/2018	05/11/2018	150.52 X 150.44 X 150.41	22644	8.331	643.1	28.4	
3	M30 Concrete	M30	29/10/2018	05/11/2018	150.46 X 150.61 X 150.25	22661	8.345	659.4	29.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-12-18-97** **Date: 26/11/2018**

Project Name : Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division

Agency : M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.

Customer's Reference : BBMP/EE/BTP/W.O/05/2018-19

Date of Receipt : 31-10-18

Sample ID No : 2018-12-18-97 /10

Customer ID : M30 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M30 Concrete	M30	29/10/2018	26/11/2018	150.48 X 151.51 X 150.34	22799	8.312	750.1	32.9	
2	M30 Concrete	M30	29/10/2018	26/11/2018	150.78 X 151.42 X 150.51	22831	8.331	748.9	32.8	32.5
3	M30 Concrete	M30	29/10/2018	26/11/2018	151.72 X 150.58 X 150.35	22846	8.345	724.2	31.7	

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2018-12-18-97** **Date: 10-10-18**

Project Name : Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division

Agency : M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.

Customer Reference : BBMP/EE/BTP/W.O/05/2018-19

Date of Receipt : 08-10-18

Sample ID No : 2018-12-18-97

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 08-10-18

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	345	345	3.1	96.9	95-100
22.4	2259	2604	23.7	76.3	60-80
11.2	2279	4883	44.4	55.6	40-60
4.75	2351	7234	65.8	34.2	25-40
2.36	1721	8955	81.4	18.6	15-30
0.6	686	9641	87.6	12.4	8-22
0.075	1359	11000	100.0	0.0	0-5

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID : **CP-RW-2018-12-18-97** **Date: 10-10-18**

Project Name : Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division

Agency : M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.

Customer Reference : BBMP/EE/BTP/W.O/05/2018-19

Date of Receipt : 08-10-18

Sample ID No : 2018-12-18-97

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 08-10-18

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : **CP-RW-2018-12-18-97** **Date: 10-10-18**

Project Name : Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division

Agency : M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.

Customer Reference : BBMP/EE/BTP/W.O/05/2018-19

Date of Receipt : 08-10-18

Sample ID No : 2018-12-18-97

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 08-10-18

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.9%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.8%	
Combined Flakiness and Elongation Index for WMM	25.7%	

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2018-12-18-97** **Date: 15-10-18**

Project Name : Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division

Agency : M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.

Customer Reference : BBMP/EE/BTP/W.O/05/2018-19

Date of Receipt : 13-10-18

Sample ID No : 2018-12-18-97

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 13-10-18

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	1300	1300	11.8	88.2	95-100
22.4	3300	4600	41.8	58.2	60-80
11.2	2000	6600	60.0	40.0	40-60
4.75	1500	8100	73.6	26.4	25-40
2.36	850	8950	81.4	18.6	15-30
0.6	250	9200	83.6	16.4	8-22
0.075	1800	11000	100.0	0.0	0-5

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-12-18-97** **Date: 15-10-18**
Project Name	:	Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.
Customer Reference	:	BBMP/EE/BTP/W.O/05/2018-19
Date of Receipt	:	13-10-18
Sample ID No	:	2018-12-18-97
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	13-10-18

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	301.0	301.0
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	72.0	77.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	228.7	223.5
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.5
5	Aggregate impact value	(B/A)*100	23.9	25.6
6	Aggregate impact value (Mean of two tests)	Pecentage	24.8	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-12-18-97** **Date: 15-10-18**
Project Name	:	Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division
Agency	:	M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.
Customer Reference	:	BBMP/EE/BTP/W.O/05/2018-19
Date of Receipt	:	13-10-18
Sample ID No	:	2018-12-18-97
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	13-10-18

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	16.9%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	13.5%	
Combined Flakiness and Elongation Index for WMM	30.4%	

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TEST RESULTS OF GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : **CP-RW-2018-12-18-97** **Date: 25-10-18**

Project Name : Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division

Agency : M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.

Customer Reference : BBMP/EE/BTP/W.O/05/2018-19

Date of Receipt : 23-10-18

Sample ID No : 2018-01-03-01/01

Type of Mix : BM-Plant (Bituminous Macadam)

Date of test 23-10-18

Weight of Sample(gm) : 5000

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0	100	100
19	165	165	3.3	96.7	90-100
13.2	512	677	13.5	86.5	56-88
4.75	2759	3436	68.7	31.3	16-36
2.36	911	4347	86.9	13.1	4-19
0.3	358	4705	94.1	5.9	2-10
0.075	232	4937	98.7	1.3	0-8
PAN	63	5000	100.0	0.0	0

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID : **CP-RW-2018-12-18-97** **Date: 26-10-18**

Project Name : Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division

Agency : M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.

Customer Reference : BBMP/EE/BTP/W.O/05/2018-19

Date of Receipt : 23-10-18

Sample ID No : 2018-01-03-01/01

Type of Mix : BM(Bitumnous Macadam)

Date of test : 23-10-18

Type of Binder : 60/70

% of Binder Used : 5.0%

Weight of Aggregate : 200.0 gm

Weight of Binder : 10.0 gm

Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.2	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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TESTS RESULTS ON STABILITY OF MIX

Lab ID : **CP-RW-2018-12-18-97** **Date: 26-10-18**

Project Name : Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division

Agency : M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.

Customer Reference : BBMP/EE/BTP/W.O/05/2018-19

Date of Receipt : 23-10-18

Sample ID No : 2018-01-03-01/01

Type of Mix : BM (Bituminous Mecadam)

Date of test : 23-10-18

The results of the tests conducted on the Bituminous Macadam mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.29	11.82	9KN(Min)
2	Marshal flow at 60°C, mm	3.54	3.87	2-4
3	Percent air Voids	4.56	4.17	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.54	14.76	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.98	70.28	65-75
6	Density, g/cc	2.42	2.40	–

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Page 1/1
End of Report

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BM (IS 2386:(Part 1) 1963 (RA2011)

Lab ID : **CP-RW-2018-12-18-97** **Date: 30-10-18**

Project Name : Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division

Agency : M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.

Customer Reference : BBMP/EE/BTP/W.O/05/2018-19

Date of Receipt : 29-10-18

Sample ID No : CP-RW-2018-12-18-97

Type of Mix : BM (Bituminous Macadam)

Date of test : 29-10-18

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	470	465
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6	7.00
4	Average percentage	%	6.50	

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Lab ID : **CP-RW-2018-12-18-97** **Date: 30-10-18**

Sample ID No : **CP-RW-2018-12-18-97**

AFTER EXTRACTION(Trail-1)

Weight of Sample : 470 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	38	38	8.1	91.9	90-100
13.2	147	185	39.4	60.6	56-88
4.75	191	376	80.0	20.0	16-36
2.36	28	404	86.0	14.0	4-19
0.3	32	436	92.8	7.2	2-10
0.075	31	467	99.4	0.6	0-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 465 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	38	38	8.2	91.8	90-100
13.2	147	185	39.8	60.2	56-88
4.75	191	376	80.9	19.1	16-36
2.36	28	404	86.9	13.1	4-19
0.3	32	436	93.8	6.2	2-10
0.075	31	467	100.4	-0.4	0-8

Note:-
The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BM (IS 2386:(Part 1) 1963 (RA2011)

Lab ID : **CP-RW-2018-12-18-97** **Date: 30-10-18**

Project Name : Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division

Agency : M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.

Customer Reference : BBMP/EE/BTP/W.O/05/2018-19

Date of Receipt : 29-10-18

Sample ID No : CP-RW-2018-12-18-97

Type of Mix : BM (Bituminous Macadam)

Date of test : 29-10-18

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	468	465
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.4	7.00
4	Average percentage	%	6.70	

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Lab ID : **CP-RW-2018-12-18-97** **Date: 30-10-18**

Sample ID No : **CP-RW-2018-12-18-97**

AFTER EXTRACTION(Trail-1)

Weight of Sample : 468 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	38	38	8.1	91.9	90-100
13.2	147	185	39.5	60.5	56-88
4.75	191	376	80.3	19.7	16-36
2.36	28	404	86.3	13.7	4-19
0.3	35	439	93.8	6.2	2-10
0.075	31	470	100.4	-0.4	0-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 465 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	38	38	8.2	91.8	90-100
13.2	147	185	39.8	60.2	56-88
4.75	191	376	80.9	19.1	16-36
2.36	28	404	86.9	13.1	4-19
0.3	30	434	93.3	6.7	2-10
0.075	31	465	100.0	0.0	0-8

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End of Report

TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : **CP-RW-2018-12-18-97** **Date: 26-10-18**

Project Name : Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division

Agency : M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.

Customer Reference : BBMP/EE/BTP/W.O/05/2018-19

Date of Receipt : 24-10-18

Sample ID No : 2018-12-18-97

Type of Mix : BC-Plant (Bituminous Concrete)

Date of test : 24-10-18

Oven Dry Weight : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID : **CP-RW-2018-12-18-97** **Date: 27-10-18**

Project Name : Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division

Agency : M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.

Customer Reference : BBMP/EE/BTP/W.O/05/2018-19

Date of Receipt : 24-10-18

Sample ID No : 2018-12-18-97

Type of Mix : BC(Bitumenous Concrete)

Date of test : 24-10-18

Type of Binder : 60/70

% of Binder Used : 5.0%

Weight of Aggregate : 200.0 gm

Weight of Binder : 10.0 gm

Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID : **CP-RW-2018-12-18-97** **Date: 27-10-18**

Project Name : Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division

Agency : M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.

Customer Reference : BBMP/EE/BTP/W.O/05/2018-19

Date of Receipt : 24-10-18

Sample ID No : 2018-12-18-97

Type of Mix : BC (Bituminous Concrete)

Date of test : 24-10-18

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TESTS RESULTS ON STABILITY OF MIX

Lab ID : **CP-RW-2018-12-18-97** **Date: 27-10-18**

Project Name : Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division

Agency : M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.

Customer Reference : BBMP/EE/BTP/W.O/05/2018-19

Date of Receipt : 24-10-18

Sample ID No : 2018-12-18-97

Type of Mix : BC (Bituminous Concrete)

Date of test : 24-10-18

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-RW-2018-12-18-97** **Date: 02-11-18**

Project Name : Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division

Agency : M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.

Customer Reference : BBMP/EE/BTP/W.O/05/2018-19

Date of Receipt : 31-10-18

Sample ID No : CP-RW-2018-12-18-97

Type of Mix : BC (Bituminous Concrete)

Date of test : 31-10-18

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	501
2	Weight of the sample After extraction	B	477	476
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.60	4.99
4	Average percentage	%	4.8	

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Lab ID : **CP-RW-2018-12-18-97** **Date: 02-11-18**

Sample ID : **CP-RW-2018-12-18-97**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 477

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	13.8	86.2	70-88
4.75	112	178	37.3	62.7	53-71
2.36	88	266	55.8	44.2	42-58
1.18	29	295	61.8	38.2	34-48
0.6	11	306	64.2	35.8	26-38
0.3	46	352	73.8	26.2	18-28
0.15	45	397	83.2	16.8	12-20
0.075	55	452	94.8	5.2	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 476

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	13.9	86.1	70-88
4.75	112	178	37.4	62.6	53-71
2.36	88	266	55.9	44.1	42-58
1.18	29	295	62.0	38.0	34-48
0.6	11	306	64.3	35.7	26-38
0.3	46	352	73.9	26.1	18-28
0.15	45	397	83.4	16.6	12-20
0.075	55	452	95.0	5.0	4-10

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End of Report

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-RW-2018-12-18-97** **Date: 02-11-18**

Project Name : Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division

Agency : M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.

Customer Reference : BBMP/EE/BTP/W.O/05/2018-19

Date of Receipt : 31-10-18

Sample ID No : CP-RW-2018-12-18-97

Type of Mix : BC (Bituminous Concrete)

Date of test : 31-10-18

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	501
2	Weight of the sample After extraction	B	477	476
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.60	4.99
4	Average percentage	%	4.8	

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Lab ID : **CP-RW-2018-12-18-97** **Date: 02-11-18**

Sample ID : **CP-RW-2018-12-18-97**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 477

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	13.8	86.2	70-88
4.75	112	178	37.3	62.7	53-71
2.36	96	274	57.4	42.6	42-58
1.18	29	303	63.5	36.5	34-48
0.6	22	325	68.1	31.9	26-38
0.3	46	371	77.8	22.2	18-28
0.15	51	422	88.5	11.5	12-20
0.075	55	477	100.0	0.0	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 476

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	17	17	3.6	96.4	90-100
9.5	62	79	16.6	83.4	70-88
4.75	112	191	40.1	59.9	53-71
2.36	88	279	58.6	41.4	42-58
1.18	29	308	64.7	35.3	34-48
0.6	15	323	67.9	32.1	26-38
0.3	46	369	77.5	22.5	18-28
0.15	49	418	87.8	12.2	12-20
0.075	58	476	100.0	0.0	4-10

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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID : **CP-RW-2018-12-18-97** **Date: 23-10-18**

Project Name : Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division

Agency : M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.

Customer's Reference : BBMP/EE/BTP/W.O/05/2018-19

Date of Receipt : 22-10-18

Sample ID No : 2018-12-18-97

Sample Type : Bitumen

Reference to BIS codes : IS: 1201-1220(1978) (Reaffirmed-2004)

Date of test : 22-10-18

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	245	Min. 220°C
	Fire point, °C	272	

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Page 1/1
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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : **CP-2018-12-18-97** **Date: 06-11-18**

Project Name : Package-7, Including 2 Works of Rs.210.00 Lakhs (1) Providing and Fixing Wooden flooring, play equipment, Multi purpose Gym equipment, Badmitton Court, Table Tennis stand, Yoga Matt and other fitting at indore stadium, Vidyaranyapura in ward no. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. (2) Improvements to the balance roads and drains at Chamundeshwari layout, Nanjappa layout and surrounding areas in ward no. 10 (Doddabommasandra), Vidyaranyapura Sub Division

Agency : M/s. Soorya Creator. Sri. P. Hemanth, No. 109/10, 4th cross, 6th main, Vivekanada Road, Balaji Layout, R.M.V 2nd stage - 560094.

Customer's Reference : BBMP/EE/BTP/W.O/05/2018-19

Date of Receipt : 05-11-18

Sample ID No : 2018-12-18-97

Type of Mix : Tack coat

Date of test : 05-11-18

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

End of Report

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